19" (18.0" VIS) Real Flat monitor

109P40

- *19-inch (18.0" VIS) Real Flat color monitor featuring ICE technology for excellent front of screen performance for use with MACs and PCs*
- *Autoscan covers horizontal frequencies up to 111 kHz offering a maximum resolution of 1920 x 1440 optimal with flicker free display of 1280 x 1024 at up to 104 Hz*
- *Real Flat Aperture Grille CRT with high-resolution 0.24 mm uniform grille pitch*
- *Auto Calibrate extends the useful life of the monitor by automatically adjusting color and luminance to original values*
- *XSD - Xtra Space Design™ for large screen display in a small footprint: World's shortest 19-inch Real Flat monitor with maximum depth of only 438 mm / 17.2"*
- *sRGB for correct representation of colors*
- *TCO03, E2000, NUTEK, EPA, FCC, CE, ISO9241 and ISO14001 certified*

BRILLIANCE 109P
AutoCAD - [arch1203.dwg]
Command: '_pan
Press Esc or Enter to exit, or right-click to activate pop-up menu.
Press pick button and drag to pan.
PHILIPS

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Let's make things better.

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19" (18.0" VIS) Real Flat monitor

Technical Specifications

CRT

• Size (inch/cm)	19"/ 46 cm
• Deflection angle (degrees)	90°
• Grille pitch	0.24 mm uni-pitch
• Tube type	Aperture grille, Real Flat, High Contrast, Anti Glare, Anti Static, Anti reflection Light Transmission 41%
• Phosphor	B22
• Recom. display area(mm)	355 x 265 mm
• Recom. display area(inch)	14" x 10.4"
• Max. display area(mm)	365 x 274 mm
• Max. display area(inch)	14.4" x 10.8"

Scanning

• Horizontal scanning	30 - 111 kHz
• Vertical scanning	50 - 160 Hz

Video

• Video dot rate	290 MHz
• Input impedance	
-Video	75 Ohm
-Sync	2.2k Ohm
• Input signal levels	0.7 Vpp
• Sync input signal	Separate sync Composite sync
• Sync polarities	Positive and negative

White color temperature

• at 9300°K:	x=0.283, y=0.297
• at 6500°K:	x=0.313, y=0.329
• at 5500°K:	x=0.332, y=0.347

Resolution and preset modes

• Max. resolution	1920 x 1440
• Recom. resolution	1280 x 1024
• GTF	
• 16 user definable modes	
• 30 factory preset modes:	

	H.freq (kHz)/ V.freq (Hz)
640 x 480	31.5K/60
640 x 480	37.9K/72
640 x 480	37.5K/75
640 x 480	43.3K/85
640 x 480	50.6K/100
720 x 400	31.5K/70
800 x 600	37.9K/60
800 x 600	48.1K/72
800 x 600	46.9K/75
800 x 600	53.7K/85
800 x 600	63.9K/100
832 x 624	49.7K/75
1024 x 768	48.4K/60
1024 x 768	56.5K/70
1024 x 768	60.0K/75
1024 x 768	68.7K/85
1152 x 870	68.7K/75
1280 x 960	85.9K/85
1280 x 1024	64.0K/60
1280 x 1024	80.0K/75
1280 x 1024	91.1K/85
1600 x 1200	75.0K/60
1600 x 1200	81.3K/65
1600 x 1200	87.5K/70
1600 x 1200	93.8K/75
1600 x 1200	106.3K/85
1792 x 1344	83.6K/60
1792 x 1344	106.3K/75
1856 x 1392	86.3K/60
1920 x 1440	90.0K/60

Plug and play compatibility

- Display Data Channel DDC 2B
- Microsoft® Windows® 95/98/Me & 2000/NT/XP compatible

Power management

Complies with EPA Energy Star and NUTEK specifications

• Operation	120 W (typical)
• Off mode/Deep Sleep	< 1 W

Low-emission characteristics

- Complies with MPR-II and TCO '03 specifications

Monitor controls and functions

• Main	5-button OSD Brightness +/- direct access Contrast+/- direct access Input selection direct access
• On Screen Display	Language (English, Spanish, French, German, Italian), zoom, horizontal, vertical, pincushion, balanced, trapezoid, parallelogram, color, sRGB reset, degauss, moire, serial number, resolution, frequency Convergence, purity Input selection Auto Calibrate
• Auto Calibrate	Automatic and manual calibration of color temperature, brightness and contrast levels to original setting.

Connections and Cables

• Connections	
-Video	15-pin D-sub / 5 BNC
• Cables	D-Sub Video cable(fixed), power cord

Regulatory approvals

- TCO '03
- MPR-II Low Emission
- TÜV/GS, TÜV/Ergo
- FCC-B, UL, CSA, DHHS
- SEMKO, Poland-B sign, C-Tick
- VCC-I, CE, BSMI, PSB

Physical specifications

• Dim. incl. base (WxHxD)(mm)	456 x 469 x 438
• Dim. incl. base (WxHxD)(inch)	17.9" x 18.5" x 17.2"
• Dim. excl. base (WxHxD)(mm)	456 x 419 x 438
• Dim. excl. base (WxHxD)(inch)	17.9" x 16.5" x 17.2"
• Weight (kg)	23.5 kg
• Power supply	90 - 264 VAC, 50/60Hz
• Temperature (operational)	0°C to 35°C/ 32°F to 95°F
• Temperature (storage)	-25°C to 65°C/ -13°F to 149°F
• Relative humidity	5% to 95%
• MTBF	> 75,000 hrs

As an Energy Star partner, Philips has determined that this product meets the Energy Star guidelines for energy efficiency.

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Release date: January 2004
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